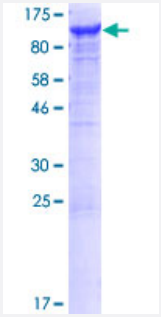
Full-Length

# VAC14 (Human) Recombinant Protein (P01)

Catalog # H00055697-P01 Size 25 ug, 10 ug

## Applications




## Specification

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| **Product Description** | Human VAC14 full-length ORF ( NP_060522.3, 1 a.a. - 782 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Sequence** | MNPEKDFAPLTPNIVRALNDKLYEKRKVAALEIEKLVREFVAQNNTVQIKHVIQTLSQEFALSQHPH SRKGGLIGLAACSIALGKDSGLYLKELIEPVLTCFNDADSRLRYYACEALYNIVKVARGAVLPHFNV LFDGLSKLAADPDPNVKSGSELLDRLLKDIVTESNKFDLVSFIPLLRERIYSNNQYARQFIISWILVLE SVPDINLLDYLPEILDGLFQILGDNGKEIRKMCEVVLGEFLKEIKKNPSSVKFAEMANILVIHCQTTD DLIQLTAMCWMREFIQLAGRVMLPYSSGILTAVLPCLAYDDRKKSIKEVANVCNQSLMKLVTPEDD ELDELRPGQRQAEPTPDDALPKQEGTASGGPDGSCDSSFSSGISVFTAASTERAPVTLHLDGIV QVLNCHLSDTAIGMMTRIAVLKWLYHLYIKTPRKMFRHTDSLFPILLQTLSDESDEVILKDLEVLAEIA SSPAGQTDDPGPLDGPDLQASHSELQVPTPGRAGLLNTSGTKGLECSPSTPTMNSYFYKFMINLL KRFSSERKLLEVRGPFIIRQLCLLLNAENIFHSMADILLREEDLKFASTMVHALNTILLTSTELFQLRN QLKDLKTLESQNLFCCLYRSWCHNPVTTVSLCFLTQNYRHAYDLIQKFGDLEVTVDFLAEVDKLV QLIECPIFTYLRLQLLDVKNNPYLIKALYGLLMLLPQSSAFQLLSHRLQCVPNPELLQTEDSLKAAPK SQKADSPSIDYAELLQHFEKVQNKHLEVRHQRSGRGDHLDRRVVL |
| **Host** | Wheat Germ (in vitro) |
| **Theoretical MW (kDa)** | 114.4 |
| **Preparation Method** | *in vitro* wheat germ expression system |
| **Purification** | Glutathione Sepharose 4 Fast Flow |

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| **Quality Control Testing** | 12.5% SDS-PAGE Stained with Coomassie Blue. |
| **Storage Buffer** | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| **Storage Instruction** | Store at -80°C. Aliquot to avoid repeated freezing and thawing. |
| **Note** | Best use within three months from the date of receipt of this protein. |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — VAC14

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|---|---|
| **Entrez GeneID** | 55697 |
| **GeneBank Accession#** | NM_018052.3 |
| **Protein Accession#** | NP_060522.3 |
| **Gene Name** | VAC14 |
| **Gene Alias** | ArPIKfyve, FLJ10305, FLJ36622, FLJ46582, MGC149815, MGC149816, TAX1BP2, TRX |
| **Gene Description** | Vac14 homolog (S. cerevisiae) |
| **Omim ID** | 604632 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Phosphatidylinositol 3,5-bisphosphate (PI(3,5)P2) is a low-abundance signaling molecule. A regulatory complex made up of VAC14 and FIG4 (MIM 609390) control synthesis of PI(3,5)P2 by activating PI(3)P kinase, FAB1 (PIP5K3; MIM 609414). The VAC14/FIG4 complex also functions in the breakdown of PI(3,5)P2 (Zhang et al., 2007 [PubMed 17956977]).[supplied by OMIM |
| **Other Designations** | Tax1 (human T-cell leukemia virus type I) binding protein 1\|Tax1 (human T-cell leukemia virus type I) binding protein 2\|Vac14 homolog |

## Disease

- Tobacco Use Disorder